FIG. 1

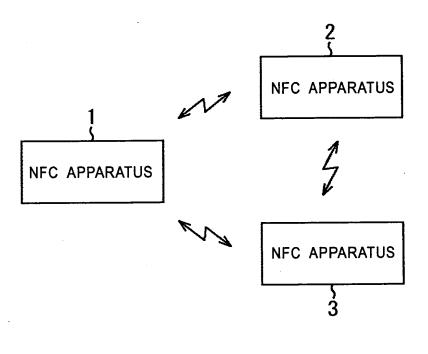


FIG. 2

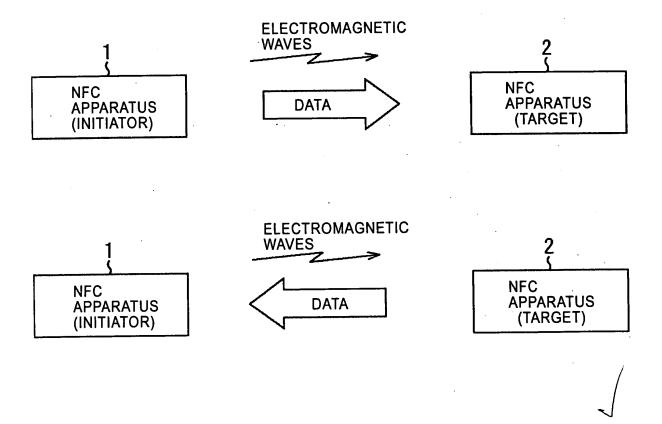


FIG. 3

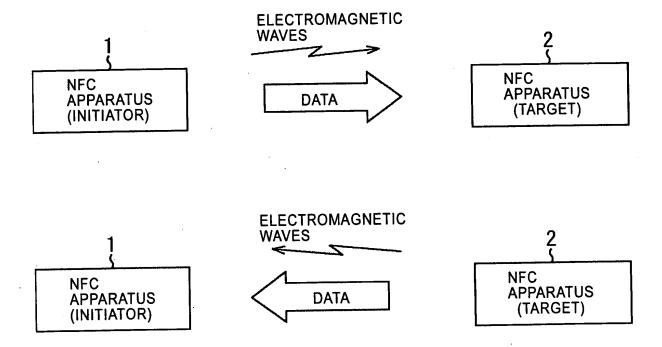
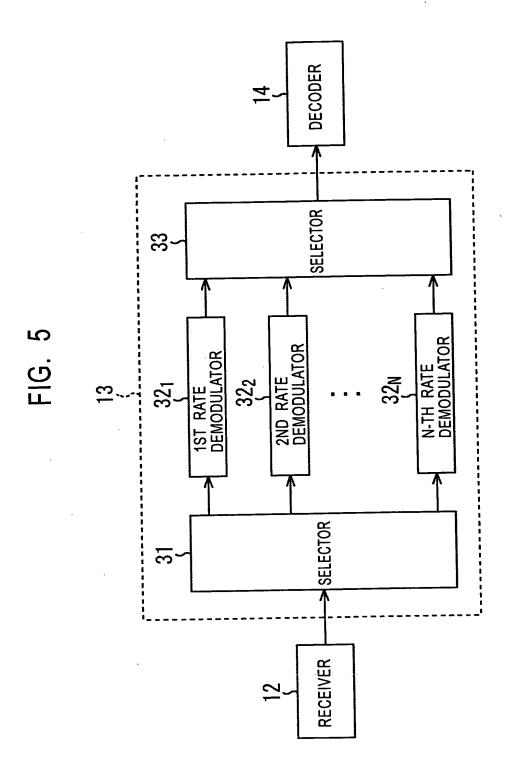
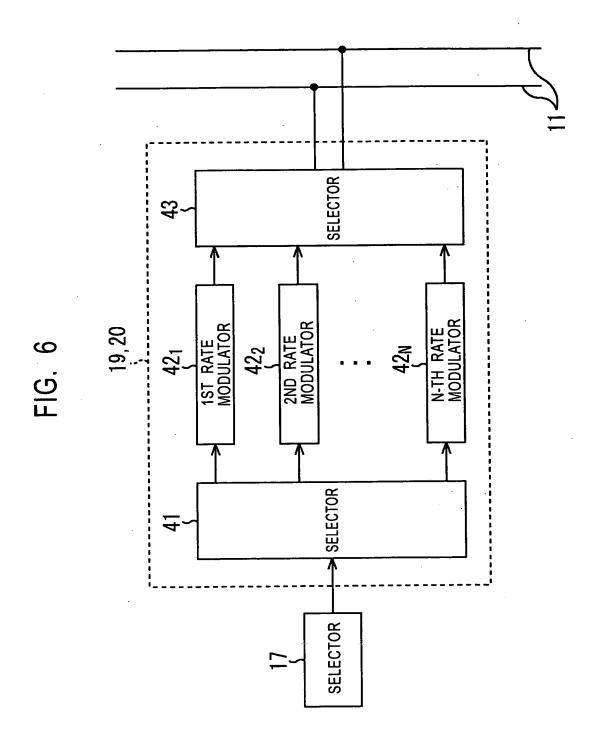


FIG. 4 11 12 **RECEIVER DETECTOR** 23 13 20 **DEMODULATOR** LOAD **MODULATOR** 17 **DECODER** -19 MODULATOR **SELECTOR** 14 **ELECTROMAGNETIC** -18 **ENCODER** -16 WAVE OUTPUT UNIT 15 DATA PROCESSOR (PROTOCOL PROCESSOR) **RANDOM** NUMBER **POWER UNIT** CONTROLLER **GENERATOR 24** <u>7</u> 21 **22**





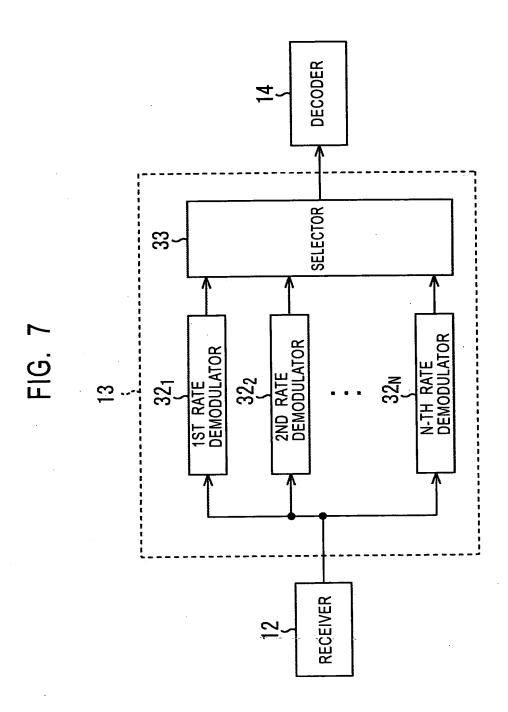
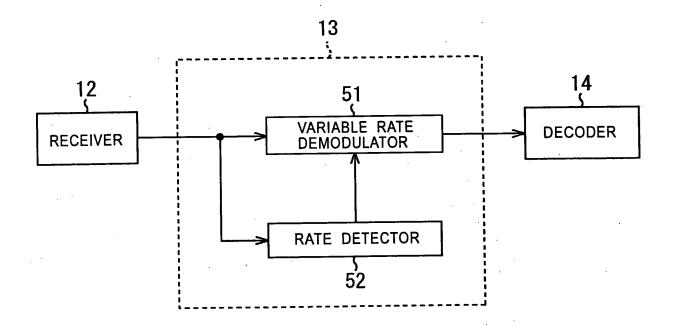


FIG. 8



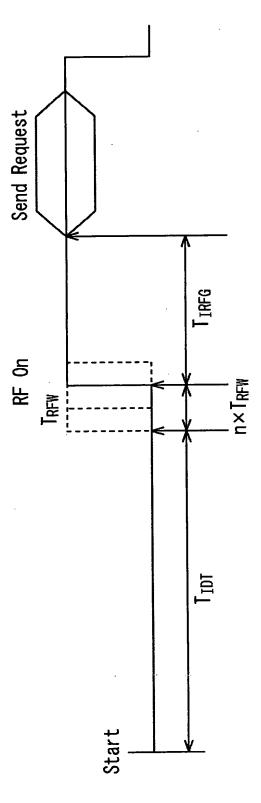


FIG. 9

 T_{IDT} : Initial delay time. $T_{IDT} > 4~096/fc$

T_{RFW}: RF waiting time. 512/fc

n: randomly generated number of Time Periods for TRFW.

0 < n < 3

 $T_{ extsf{RFG}}$: Initial guard-time between switching on RF field and start to send command or data frame.

 $T_{\rm IRFG}{>}5$ ms

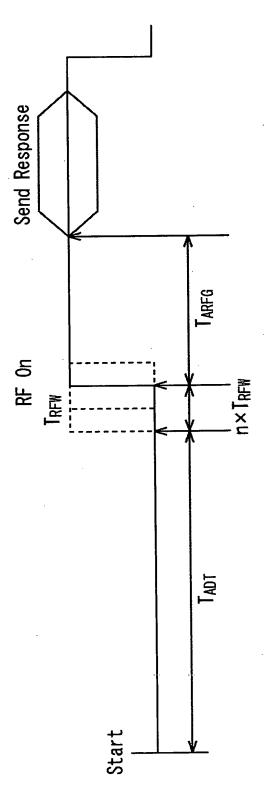


FIG. 10

 T_{ADT} : Active delay time, sense time between RF off Initiator/Target and Target/Initiator.

 $(768/fc \le T_{ADT} \le 259/fc)$

 T_{RFW} : RF waiting time. (512/fc)

Randomly generated number of Time Periods for TRFW. (0 \leq n \leq 3)

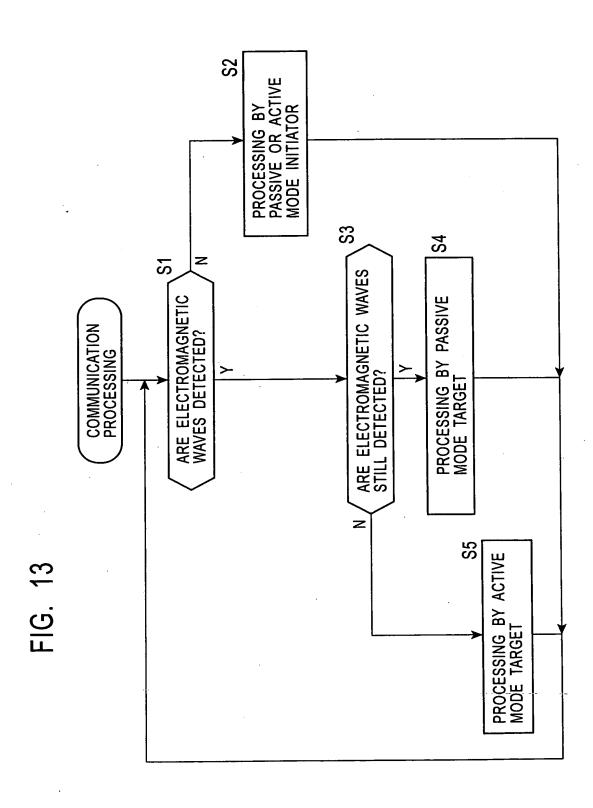
TARFG: Active guard time between switching on RF field and start to send command. (TARFG >1024/fc)

т			
← Is →	TIME SLOT #3	TARGET #2 SENDS POLLING RESPONSE FRAME	
<- Ts →	TIME SLOT #2	Target #5 Sends Polling Response Frame	
← 1s →	TIME SLOT #1	TARGET #1 SENDS POLLING RESPONSE FRAME	TARGET #3 SENDS POLLING RESPONSE FRAME
↑ Is ↑	TIME SLOT #0	TARGET #4 SENDS POLLING RESPONSE FRAME	
	TIME ->	SEND POLLING REQUEST FRAME	

FIG. 11

FIG. 12

COMMAND/RESPONSE
ATR_REQ
ATR_RES
WUP_REQ
WUP_RES
PSL_REQ
PSL_RES
DEP_REQ
DEP_RES
DSL_REQ
DSL_RES
RLS_REQ
RLS_RES



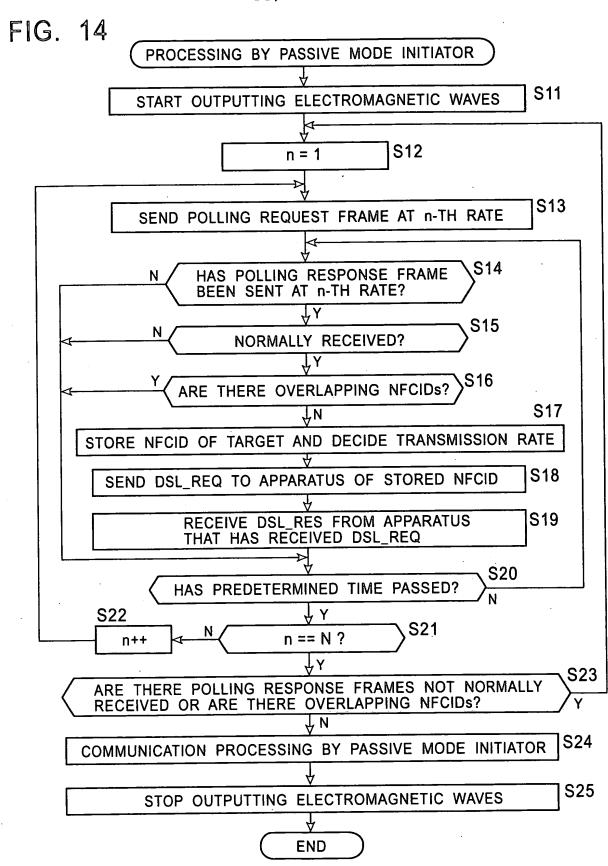


FIG. 15

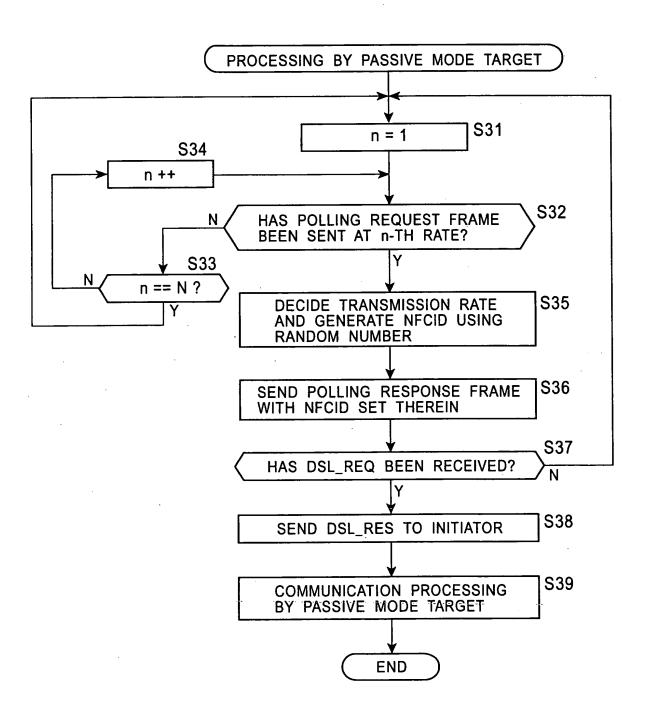


FIG. 16

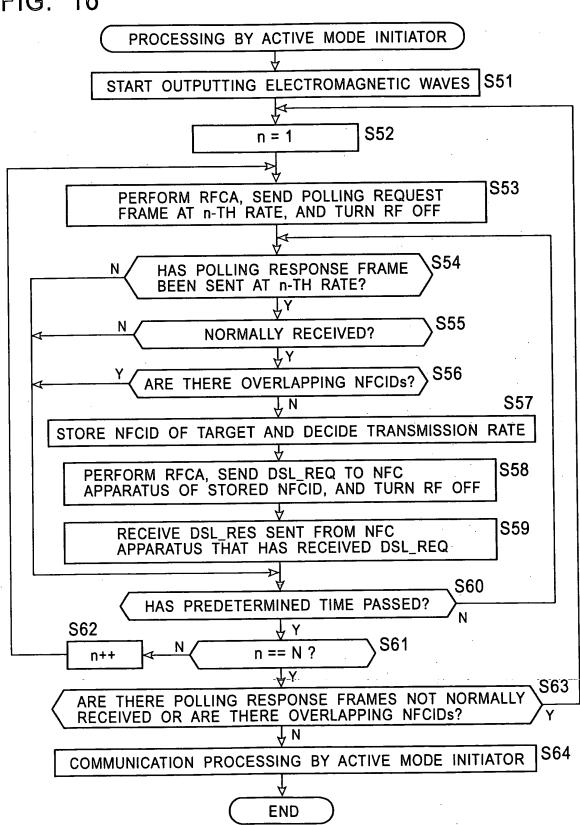


FIG. 17

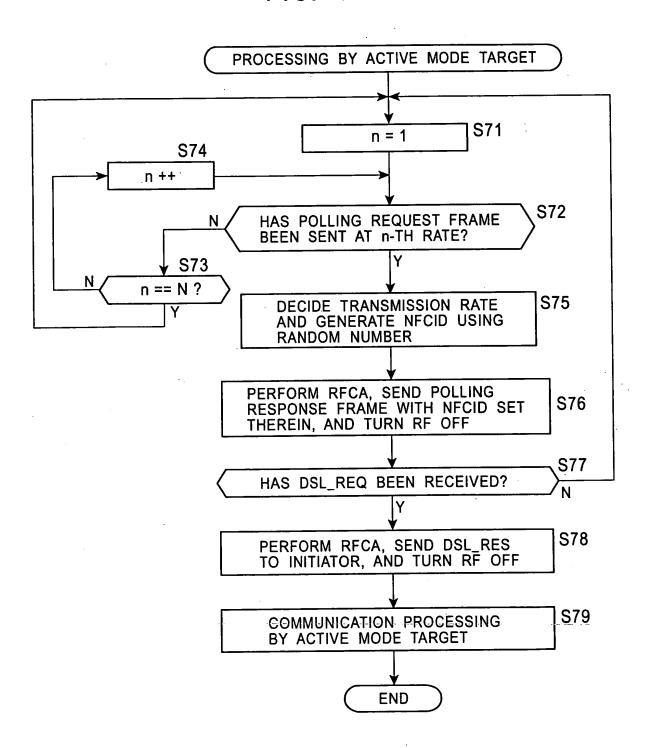


FIG. 18

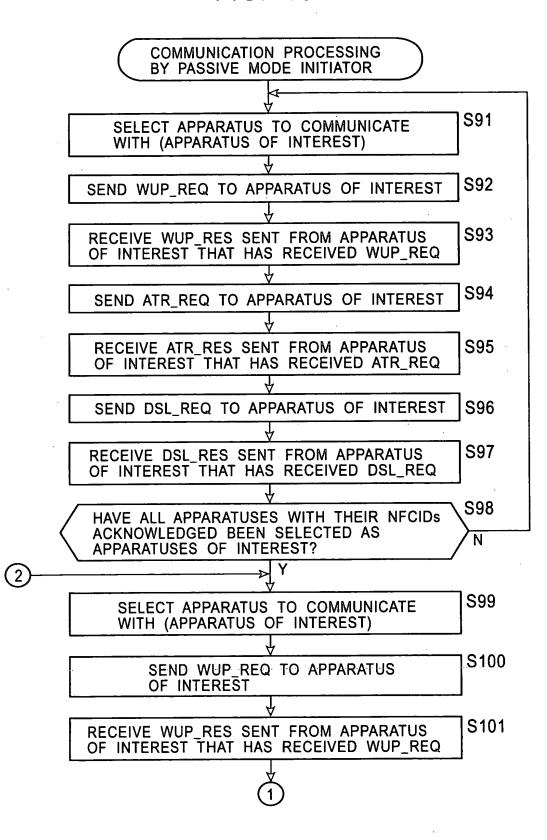
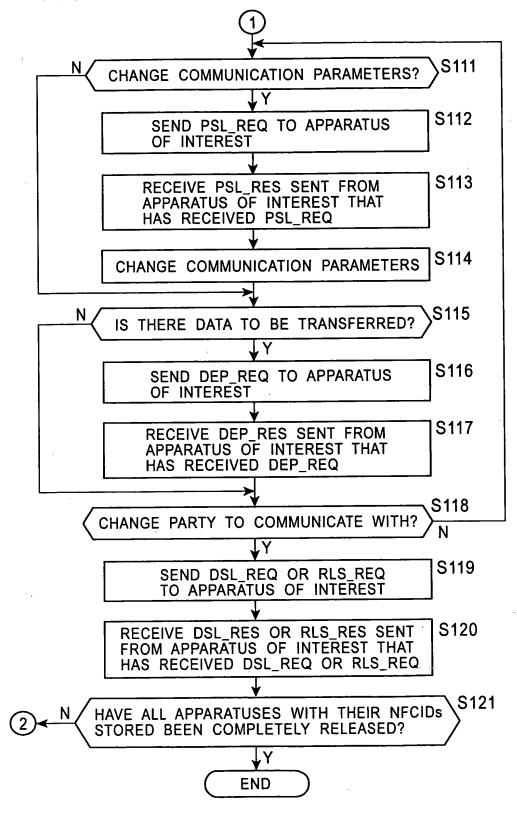


FIG. 19



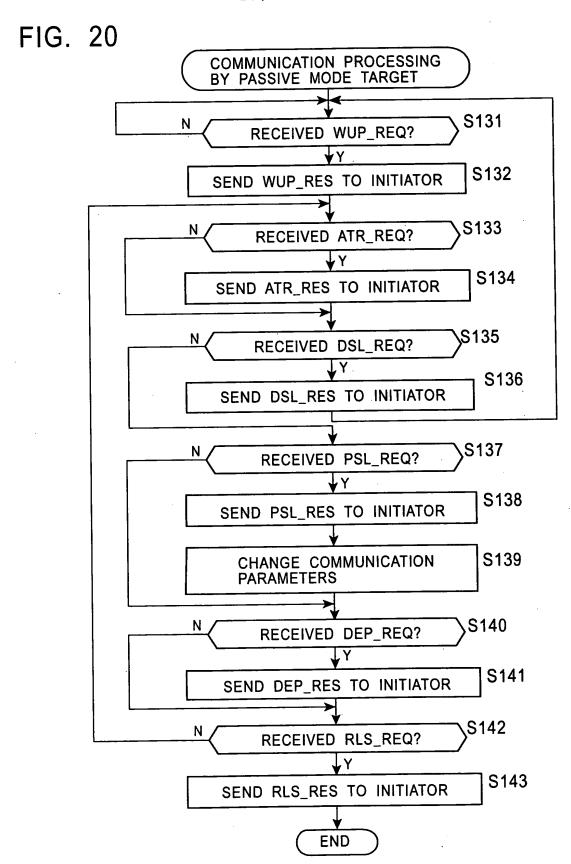
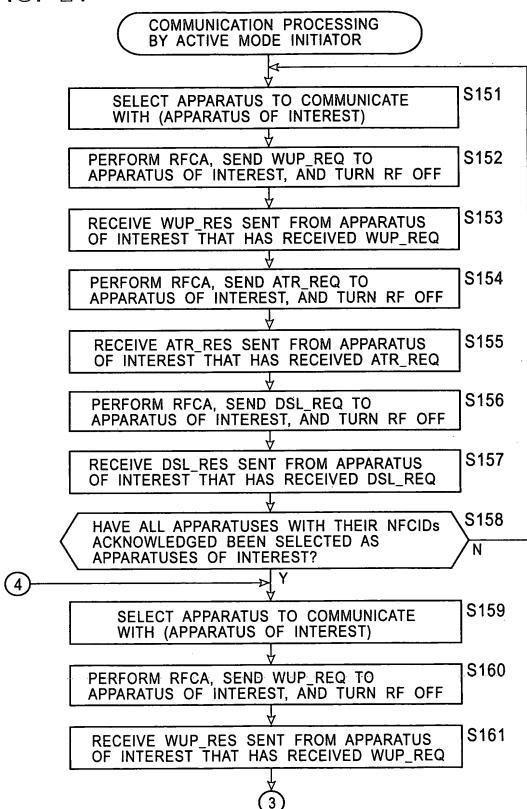


FIG. 21



22 / 23 FIG. 22 S171 CHANGE COMMUNICATION PARAMETERS? S172 PERFORM RFCA, SEND PSL_REQ TO APPARATUS OF INTEREST, AND TURN RF OFF S173 RECEIVE PSL_RES SENT FROM APPARATUS OF INTEREST THAT HAS RECEIVED PSL_REQ S174 CHANGE COMMUNICATION PARAMETERS S175 IS THERE DATA TO BE TRANSFERRED? S176 PERFORM RFCA, SEND DEP_REQ TO APPARATUS OF INTEREST. AND TURN RF OFF S177 RECEIVE DEP RES SENT FROM APPARATUS OF INTEREST THAT HAS RECEIVED DEP_REQ S178 CHANGE PARTY TO COMMUNICATE WITH? PERFORM RFCA, SEND DSL_REQ OR RLS_REQ TO APPARATUS OF S179 INTEREST, AND TURN RF OFF S180 RECEIVE DSL_RES OR RLS_RES SENT. FROM APPARATUS OF INTEREST THAT HAS RECEIVED DSL_REQ OR RLS_REQ S181 HAVE ALL APPARATUSES WITH THEIR NFCIDs STORED BEEN COMPLETELY RELEASED? END

